



ROCK QUARRY SURPLUS WAREHOUSE - PAVING REPLACEMENT

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI PROJECT NO. CP221442

LOCATION MAP



PROJECT BENCHMARK:

TM #1 - CHISELED SQUARE IN NORTHERNMOST CORNER OF CONCRETE WALL APPROX. 40' WEST OF CAPEN PARK DR. AND APPROX. 100' SOUTHEAST OF SOUTHEASTERN BUILDING CORNER. ELEVATION = 619.40'

FLOOD PLAIN STATEMENT:

PART OF THIS TRACT IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN AS PER THE BOONE COUNTY FIRM MAP #2900340287E DATED APRIL 19, 2017.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483



NATURAL GAS:

AMEREN MISSOURI
2001 MAGUIRE BLVD.
COLUMBIA, MO 65201
573-876-3030

FIBER & TELEVISION:

CHARTER COMMUNICATIONS
1510 CHARTER BOONE
INDUSTRIAL BOULEVARD
COLUMBIA, MO 65202
573-875-8875

TELEVISION:

MEDIACOM
1211 WILKES BLVD
COLUMBIA, MO 65201
(855) 633-4226

TELEPHONE:

UNIVERSITY OF MISSOURI, DIVISION OF I.T.
615 LOCUST ST.
COLUMBIA, MO 65211
573-882-5000

WATER/ELECTRIC/FIBER/SEWERMAIN:

CITY OF COLUMBIA
P.O. BOX 6015
WATER & LIGHT DEPARTMENT
COLUMBIA, MO 65205
573-874-7325

STORM, SANITARY SEWER LATERAL & SECONDARY ELECTRIC:

UNIVERSITY CAMPUS FACILITY OPERATIONS
180 GENERAL SERVICES BUILDING
COLUMBIA, MO 65211
573-882-8211

GENERAL NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MO&NR CLEAN WATER COMMISSION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND PAVEMENT THAT IS TO REMAIN. ALL DAMAGED ITEMS OUTSIDE THE SCOPE OF WORK TO BE REPLACED OR REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.

ALL PAVEMENTS, SIDEWALKS, ABANDONED SEWERS, PIPELINES, EXCESS EARTHWORK, OR OTHER OBSTRUCTIONS TO CONSTRUCTION THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH STATE REGULATION 10 CSR 80-2.010 (9)(A).

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED AND HAVE 6" MIN. TOP SOIL PLACED BY CONTRACTOR AND SEEDED AND MULCHED BY CONTRACTOR.

TOTAL DISTURBED AREA INCLUDING PAVED AREAS = 0.8 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NOT NEEDED FOR THIS PROJECT.

ALL WORK SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AND BE SUBJECT TO THE OWNER'S APPROVAL PRIOR TO PROCEEDING.

A GEOTECHNICAL EVALUATION HAS BEEN PERFORMED BY CROCKETT GEOTECHNICAL TESTING LAB (GTL). REFER TO REPORT NUMBER G22864 DATED JANUARY 11, 2023 BY CROCKETT GTL.

ALL STORM SEWER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

LAND DISTURBANCE SITES SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 48 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN A 2-YEAR, 24-HOUR STORM HAS CEASED DURING A NORMAL WORK DAY OR WITHIN 72 HOURS IF THE RAIN EVENT CEASES DURING A NON-WORK DAY SUCH AS A WEEKEND OR HOLIDAY. ANY DEFICIENCIES SHALL BE CORRECTED WITHIN SEVEN CALENDAR DAYS.

SPECIAL INSPECTIONS:

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DEFERRED SUBMITTALS:

NONE.

ENGINEER CERTIFICATION:

BY SIGNING AND AFFIXING MY SEAL TO THESE PLANS, I HEREBY CERTIFY THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

Sheet List Table

Sheet Number	Sheet Title	BID SET 07/18/2024	REVISION 1	REVISION 2	REVISION 3
CE 0	COVER SHEET	X			
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CE 2	EROSION CONTROL PLAN	X			
CE 3	GRADING PLAN	X			
CE 4	SITE AND UTILITY PLAN	X			
CE 5	STORM SEWER PROFILE AND DETAILS	X			
CE 6	SITE CONSTRUCTION DETAILS	X			
CE 7	PRIVATE CONSTRUCTION SPECIFICATIONS	X			

LEGEND OF SYMBOLS:

---	EXISTING CURB	FF-XXXX	FINISH FLOOR OF STRUCTURE
---	PROPOSED CURB	XXXXXX TC	PROPOSED TOP OF CURB ELEVATION
---	RIP RAP	XXXXXX TP	PROPOSED TOP OF PAVEMENT ELEVATION
---	EXISTING STRUCTURE	XXXXXX FC	PROPOSED FINISH GRADE ELEVATION
---	EXISTING TREELINE	XXXXXX TW	PROPOSED TOP OF WALL
---	PROPOSED TREELINE	XX	LOT NUMBER
---	EDGE OF WATERWAY	X	STORM SEWER STRUCTURE LABEL
---	EXISTING WATERLINE	X	SANITARY SEWER STRUCTURE LABEL
---	PROPOSED WATERLINE	HP.	HIGH POINT
---	EXISTING GAS LINE	LP.	LOW POINT
---	PROPOSED GAS LINE	---	EXISTING SIGNS
---	EXISTING UNDERGROUND TELEPHONE	---	EXISTING POWER POLE
---	EXISTING UNDERGROUND CABLE TELEVISION	---	EXISTING GAS VALVE
---	EXISTING HIGH VOLTAGE ELECTRIC	---	EXISTING WATER VALVE
---	EXISTING OVERHEAD ELECTRIC	---	EXISTING GAS METER
---	EXISTING UNDERGROUND ELECTRIC	---	EXISTING WATER METER
---	EXISTING OVERHEAD ELEC. & TV	---	EXISTING FIRE HYDRANT
---	EXISTING OVERHEAD ELEC., TV & TELE.	---	MANHOLE
---	EXISTING SANITARY SEWER	---	EXISTING SANITARY SEWER LATERAL
---	PROPOSED SANITARY SEWER	---	PROPOSED SANITARY SEWER LATERAL
---	EXISTING MINOR CONTOUR	---	PROPOSED TRACER WIRE TEST STATION BOX
---	EXISTING MAJOR CONTOUR	---	EXISTING AIR CONDITIONER
---	PROPOSED MINOR CONTOUR	---	EXISTING TELEPHONE PEDESTAL
---	PROPOSED MAJOR CONTOUR	---	EXISTING ELECTRICAL TRANSFORMER
---	100 YEAR FLOOD PLAIN	---	EXISTING ELECTRIC METER
---	FLOODWAY	---	EXISTING LIGHT POLE
---	ORDINARY HIGH WATER MARK	---	EXISTING GUY WIRE
---	STREAM SIDE BUFFER	---	CONSTRUCTION BARRIER FENCING
---	OUTER STREAM BUFFER	---	EXISTING UTILITY LOCATED BY MAPPING ONLY
---	DEMOLITION LIMITS		
---	SILT FENCE		

REVISIONS:

NO.	DATE
BID SET	07/18/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

ANDREW T. GREENE
MO LICENSE: 2020000043

PREPARED BY:
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ENGINEERS & ARCHITECTS
1000 W. WILKES BLVD.
COLUMBIA, MISSOURI 65203
(573) 887-0299
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#00000001

OWNER:
CURATORS OF THE UNIVERSITY
OF MISSOURI
225 UNIVERSITY HALL
C/O BUSINESS SERVICES
COLUMBIA, MO 65211

ROCK QUARRY SURPLUS WAREHOUSE - PAVING REPLACEMENT - CP221442

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

COVER SHEET

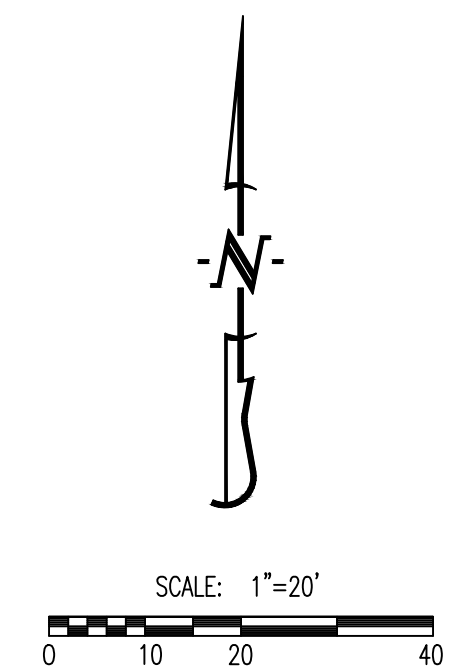
DESIGNED: ATG

DRAWN: ATG

CEC PROJECT NO.: 220507

SHEET:
CE 0

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LEGEND OF LABELS	
(A)	EXISTING PERMANENT FENCING AND GATE TO REMAIN.
(B)	REMOVE EXISTING PARKING LOT SURFACE AS SHOWN. DISPOSE OFF-SITE.
(C)	AT EDGE OF CAPEN PARK DRIVE, PROVIDE CLEAN, FULL DEPTH SAW CUT AT LIMITS OF PAVEMENT TO REMAIN.
(D)	EXISTING STAIR STRUCTURES TO REMAIN.
(E)	EXISTING DOWNSPOUT TO REMAIN. REFER TO SITE PLAN FOR NEW DOWNSPOUT EXTENSION PIPING.
(F)	EXISTING STORM PIPE TO BE REMOVED.
(G)	EXISTING BARE PARKING SIGN POSTS TO BE REMOVED.
(H)	EXISTING PARKING BUMPERS TO BE SALVAGED FOR REINSTALLATION. REFER TO SITE PLAN FOR NEW LOCATIONS.
(I)	REMOVE EXISTING TREES/BRUSH AS REQUIRED TO PERFORM SITE WORK.

SITE SPECIFIC DEMOLITION NOTES:

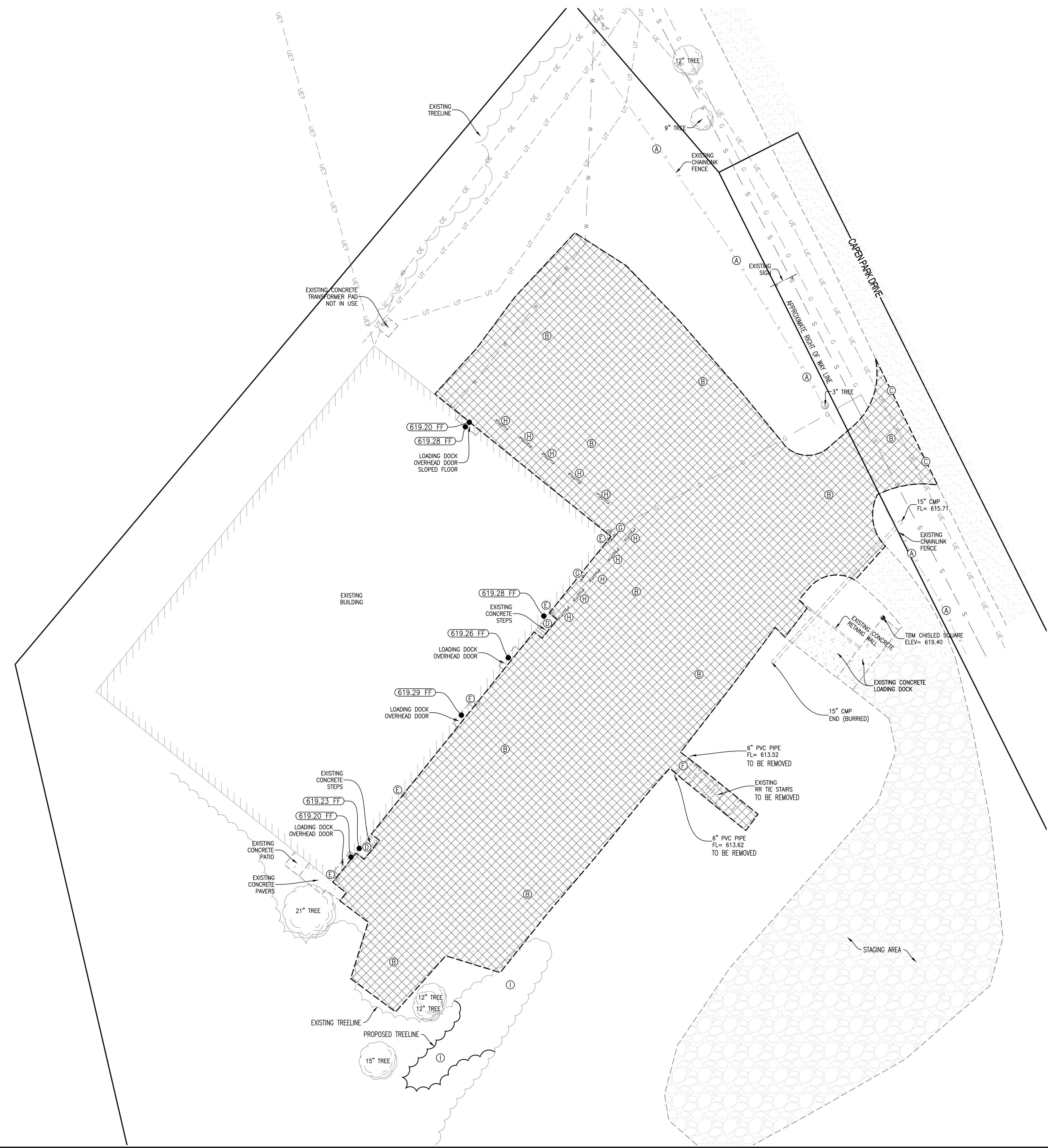
- CONTRACTOR SHALL TEMPORARILY RELOCATE EXISTING DUMPSTERS IN THE PARKING AREA TO PERFORM WORK. COORDINATE WITH OWNER'S REPRESENTATIVE ON PLACEMENT ON SITE.

GENERAL DEMOLITION NOTES:

- CONTRACTOR SHALL TAKE CAUTION TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN.
- CERTAIN AREAS MAY BE REQUIRED TO BE REMOVED IN PHASES. CONTRACTOR TO COORDINATE TIMING WITH OWNER.
- ITEMS OUTSIDE CONSTRUCTION LIMITS OR CALLED OUT TO REMAIN SHALL BE PROTECTED AS REQUIRED. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED ITEMS OUTSIDE PROJECT SCOPE OF WORK AT NO EXPENSE TO THE OWNER.
- CONCRETE TO BE REMOVED TO THE NEAREST SAW JOINT, BUT NOT LESS THAN THE DEMOLITION LIMITS SHOWN ON THE PLAN.
- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO DISCONNECTING ANY UTILITIES.
- ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
- CONTRACTOR SHALL CLEAN/POWER WASH CONSTRUCTION AREA PAVEMENT ONCE WORK IS COMPLETE.

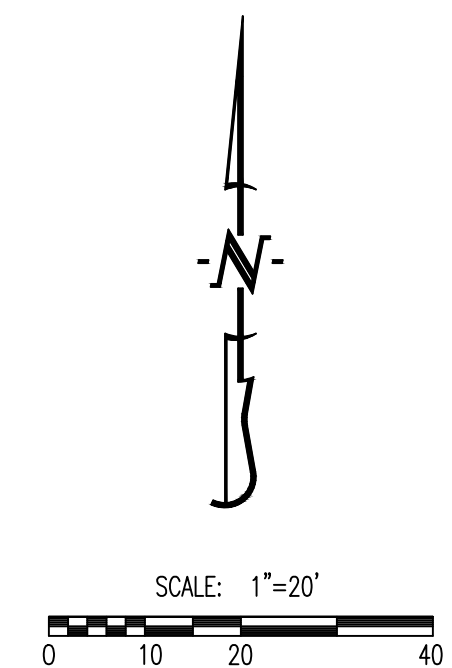
UNSUITABLE SUBGRADE NOTES:

- REFER TO EARTHMOVING SPECIFICATIONS ON CE 7.
- CONTRACTOR SHALL REMOVE EXISTING PAVEMENT, BASE AND/OR SUBGRADE TO A MINIMUM DEPTH OF THE REPLACEMENT PAVEMENT SECTION. THIS WILL ALLOW THE FULL DEPTH OF REPLACEMENT PAVEMENTS TO BE INSTALLED.
- CONTRACTOR SHALL THEN PROOF-ROLL THE SUBGRADE PER THE EARTHMOVING SPECIFICATIONS.
- IF PROOF-ROLL DOES NOT PASS REQUIREMENTS, CONTRACTOR CAN RECOMPACT THE EXISTING SUBGRADE UNTIL IT PASSES PROOF-ROLL OR REMOVE AND REPLACE THE SUBGRADE WITH TYPE 1 AGGREGATE AND RECOMPACT UNTIL IT PASSES PROOF-ROLL.
- ALL PROOF-ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, AS PER THE EARTHMOVING SPECIFICATIONS.



REVISIONS:	
NO.	DATE
BID SET	07/18/2024
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
ANDREW T. GREENE MO LICENSE: 2020000043	
CROCKETT ENGINEERING CONSULTANTS 1000 W. Niles Road, Suite 100 Columbia, Missouri 65205 (314) 487-0299 www.crockettengineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #00000001	
OWNERS: CURATORS OF THE UNIVERSITY OF MISSOURI 225 UNIVERSITY HALL C/O BUSINESS SERVICES COLUMBIA, MO 65211	
ROCK QUARRY SURPLUS WAREHOUSE - PAVING REPLACEMENT - CP221442 COLUMBIA, BOONE COUNTY, MISSOURI	
DRAWING INCLUDES:	
DEMOLITION PLAN	
DESIGNED: ATG	
DRAWN: ATG	
CEC PROJECT NO.: 220507	
SHEET: CE1	

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LEGEND OF LABELS:

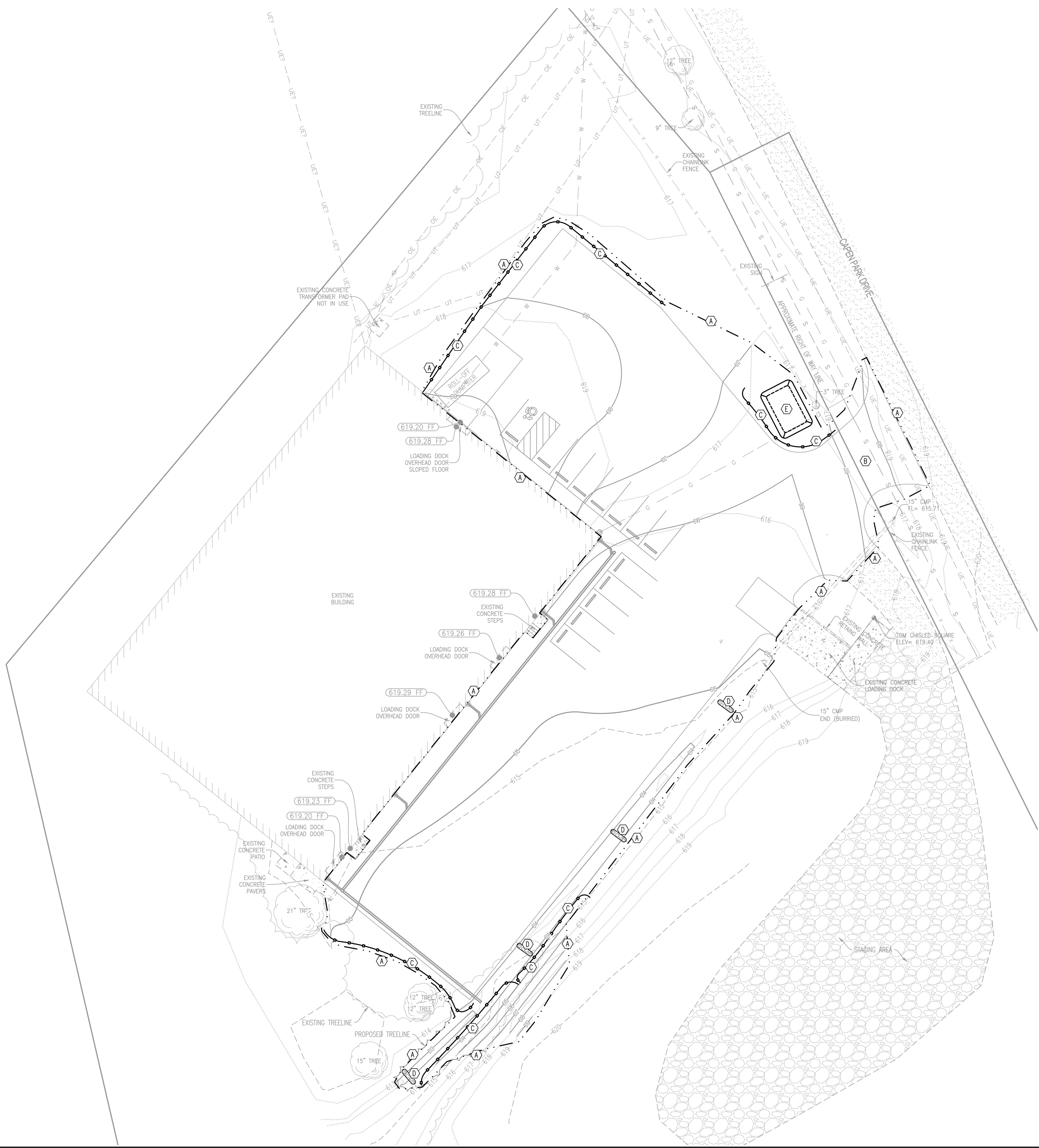
- (A) LIMITS OF DISTURBANCE.
- (B) CONTRACTOR TO USE EXISTING PAVING AS CONSTRUCTION ENTRY AND EXIT. ALL CONSTRUCTION TRAFFIC SHALL UTILIZE THIS ENTRY AND EXIT TO THE PROJECT. ANY DAMAGED PAVEMENT DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. CONTRACTOR SHALL CLEAN/POWER WASH CONSTRUCTION AREA PAVEMENT ONCE WORK IS COMPLETE.
- (C) INSTALL SILT FENCE OR STRAW WADDE (OR APPROVED EQUAL) AS EROSION CONTROL DEVICE AS SHOWN.
- (D) INSTALL ROCK CHECK DAM IN RE-GRADED DITCH AS SHOWN.
- (E) 20' X 30' X 3' MIN CONCRETE WASHOUT FACILITY; OR CONTRACTOR SHALL DIRECT TRUCKS TO WASHOUT AT PLANT.
THE WASHOUT FACILITY IS TO BE LINED WITH A PLASTIC LINING MATERIAL (10 MIL POLYETHYLENE SHEETING MIN.) FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. A SIGN SHALL BE INSTALLED ADJACENT TO FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. REMOVE WASHOUT ONCE CONSTRUCTION IS COMPLETED.

GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS SUBSTANTIALLY COMPLETE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADWAYS AND SIDEWALKS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
4. CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN. IF THE ENGINEER, OWNER'S REPRESENTATIVE, DETERMINES THAT THE INSTALLATION OF THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT THEIR EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
5. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHED 1/2 THE INSTALLED HEIGHT OF MEASURE.
7. SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.
8. INSTALL CONCRETE WASHOUT PER THIS PLAN AND NOTES; OR CONTRACTOR SHALL DIRECT CONCRETE TRUCKS TO WASHOUT AT PLANT.

GENERAL LANDSCAPE NOTES:

1. VEHICLES ARE TO USE DESIGNATED CONSTRUCTION ENTRANCES AS INDICATED ON DRAWINGS OR CONSTRUCTION DOCUMENTS. IF NO CONSTRUCTION ROUTE IS INDICATED VEHICLES ARE RESTRICTED TO SIDEWALKS OR PAVED AREAS. ALL CONSTRUCTION EQUIPMENT AND OR VEHICLES SHALL VERIFY THE WEIGHT LIMIT AND RESTRICTION ON PAVEMENT PRIOR TO CONSTRUCTION AND NOTIFY OWNERS REPRESENTATIVE OF THE PLANNED ROUTE.
2. THERE SHALL BE NO VEHICLE MOVEMENT IN ANY LANDSCAPED, SHRUB OR PERENNIAL AREAS, MULCH BED AND/OR TREE CANOPY DRIP AND ROOT ZONES, WITHOUT PRIOR MODIFICATIONS AND APPROVAL FROM LANDSCAPE SERVICES. LANDSCAPE SERVICES REQUIRES ONE WEEK NOTICE PRIOR TO ANY VEHICLE MOVEMENT IN THESE AREAS.
3. VEHICLE ACCESS SHALL NOT BREAK OR RUB TREE BRANCHES. OWNER WILL PRUNE TREE BRANCHES TO PROVIDE CLEARANCE AROUND BUILDING ENTRANCE. OWNER REQUIRES ONE WEEKS NOTICE FOR THIS WORK TO BE DONE.
4. DO NOT COMPACT GRADE WITHIN THE DRIP LINE OF TREES TO REMAIN. PROVIDE APPROVED FENCING TO PREVENT DRIVING OR EQUIPMENT PARKING WITHIN DRIP LINE OF TREES. PRIOR TO CONSTRUCTION OR WORK IN THE PROJECT AREA, MU'S CAMPUS STANDARD 6' CHAIN LINK FENCE AND POST SHALL BE USED UNLESS OTHERWISE NOTED AND/OR APPROVED BY OWNERS REPRESENTATIVE.
5. IN TURF AREAS, CONTRACTOR SHALL RIP THE SUB-SOIL TO A DEPTH OF 6" TO BREAK UP COMPACTION. CONTRACTOR SHALL THEN COMPACT THE SUB-SOIL TO 85% OF THE MATERIAL'S STANDARD PROCTOR DRY DENSITY.
6. CONTRACTOR SHALL PLACE 6" OF TOP SOIL IN TURF AREAS AND 18" OF TOP SOIL IN PLANTER BED AREAS
7. CONTRACTOR SHALL SEED AND STRAW MULCH TURF AREAS DISTURBED.
8. THE CONTRACTOR SHALL ADJUST EXISTING AND NEW YARD BOXES VALVE BOXES, PULL BOXES, CLEANOUTS, AND MANHOLE LID RINGS ETC. (INCLUDES IRRIGATION, SEWERS, WATER AND ELECTRIC), TO THE INDICATED FINAL FINISH GRADE WHERE NEW FINISHED GRADE ELEVATIONS ARE PROVIDED, INDICATED, OR OTHERWISE IMPLIED.
9. PRIOR TO CONTRACTOR DE-MOBILIZING FROM THE SITE, ANY TURF AREA WASHOUTS OR GULLEY AREAS CREATED AFTER INITIAL TOP SOIL, SEED, OR STRAW MULCH PLACEMENT SHALL BE REGRADED TO REMOVE WASHOUT/GULLEY AND HAVE SEED AND STRAW RE-APPLIED.



REVISIONS:

NO.	DATE
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THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

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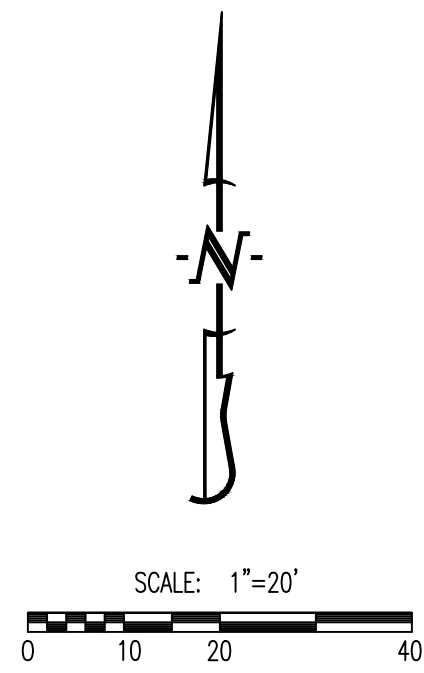
OWNER:
CURATORS OF THE UNIVERSITY OF MISSOURI
225 UNIVERSITY HALL
C/O BUSINESS SERVICES
COLUMBIA, MO 65211

**ROCK QUARRY SURPLUS WAREHOUSE
- PAVING REPLACEMENT - CP221442**
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:
EROSION CONTROL PLAN

DESIGNED: ATG
DRAWN: ATG
CEC PROJECT NO: 220507
SHEET: CE 2

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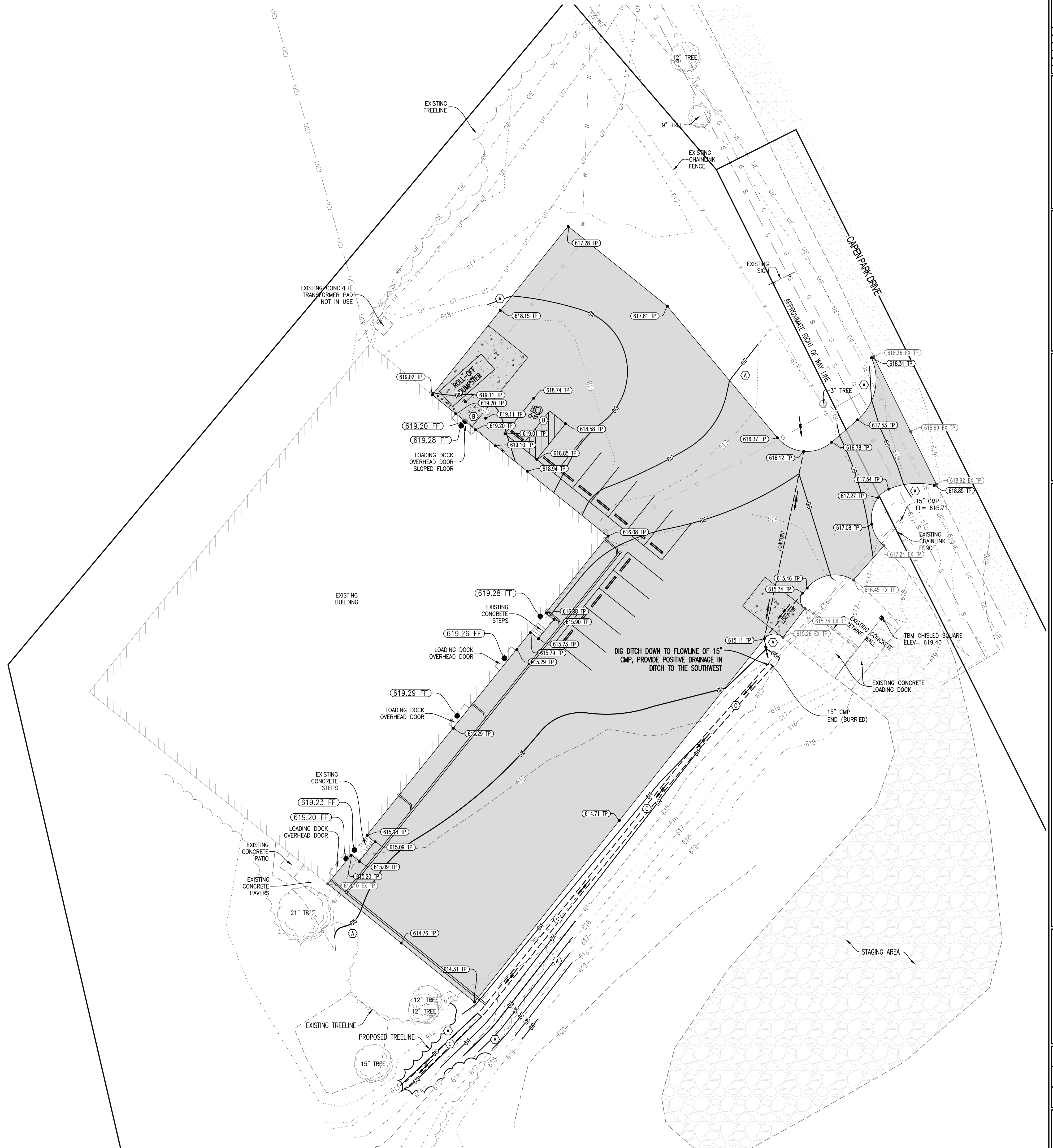


LEGEND OF SYMBOLS:

- xxx--- EXISTING MINOR CONTOUR
- - -xxx- - - EXISTING MAJOR CONTOUR
- xxx--- PROPOSED MINOR CONTOUR
- - -xxx- - - PROPOSED MAJOR CONTOUR
- (XXX.XX TP) PROPOSED TOP OF PAVEMENT ELEVATION
- (XXX.XX FG) PROPOSED FINISH GRADE ELEVATION
- (XXX.XX EX) EXISTING SPOT ELEVATION MODIFIER

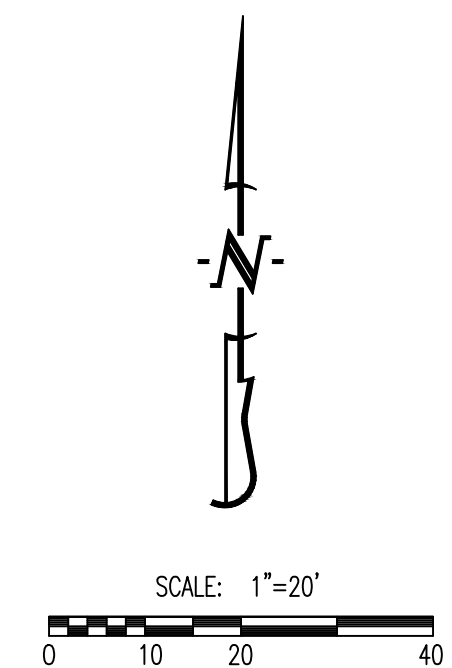
LEGEND OF LABELS

- (A) ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS, THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED BY CONTRACTOR. CONTRACTOR SHALL THEN INSTALL 6" TOP SOIL AND INSTALL SEED AND STRAW MULCH ALL DISTURBED AREAS. REFER TO SPECIAL CONDITIONS WITHIN PROJECT MANUAL FOR FURTHER DIRECTION ON FINAL TURF ESTABLISHMENT.
- (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- (C) GRADE 2' WIDE DITCH AS SHOWN.



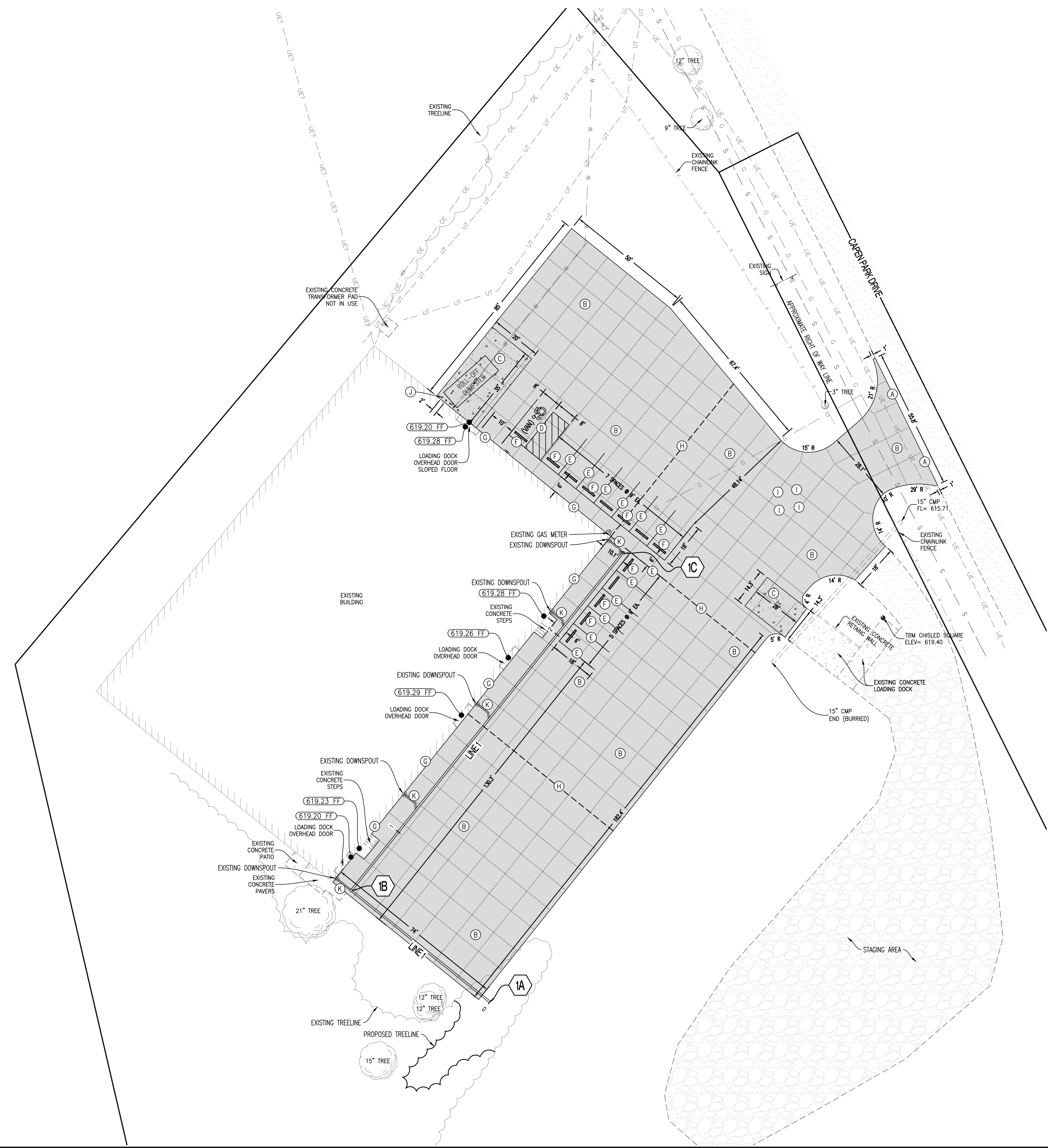
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ANDREW T. GREENE MO LICENSE: 2020000043	
PREPARED BY: CROCKETT ENGINEERING <small>ENGINEERS & ARCHITECTS 1000 W. Illinois Blvd., Suite 100 Columbia, Missouri 65205 (314) 487-0299 www.crockettengineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #000000001</small>	
OWNER: CURATORS OF THE UNIVERSITY OF MISSOURI 225 UNIVERSITY HALL C/O BUSINESS SERVICES COLUMBIA, MO 65211	
<h1 style="margin: 0;">ROCK QUARRY SURPLUS WAREHOUSE</h1> <h2 style="margin: 0;">- PAVING REPLACEMENT - CP221442</h2> <p style="margin: 0;">COLUMBIA, BOONE COUNTY, MISSOURI</p>	
DRAWING INCLUDES:	
GRADING PLAN	
DESIGNED:	ATG
DRAWN:	ATG
CEC PROJECT NO.: 220507	
SHEET:	CE 3

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- LEGEND OF LABELS**
- (A) CONTRACTOR TO PROVIDE A CLEAN SAW CUT IN EXISTING PAVEMENT TO PROVIDE A CLEAN TIE INTO PROPOSED PAVEMENT.
 - (B) CONSTRUCT HEAVY DUTY PCC PAVEMENT AS SHOWN. REFER TO DETAIL ON CE_6.
 - (C) CONSTRUCT DUMPSTER PAD AREA CONCRETE PAVEMENT AS SHOWN. REFER TO DETAIL ON CE_6.
 - (D) CONSTRUCT ACCESSIBLE PARKING AREA WITH SIGNAGE AND PARKING BUMPERS AS SHOWN. PAINT 4" STRIPE AND ACCESSIBLE SYMBOL, COLOR BLUE. PAINT HATCH AREA AS SHOWN, COLOR BLUE. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE STALL SHALL NOT EXCEED 1:50. REFER TO DETAILS ON CE_6 (TYPICAL).
 - (E) PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE. TYPICAL ALL STALLS EXCEPT ACCESSIBLE STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.
 - (F) INSTALL SALVAGED PARKING BUMPERS/WHEEL STOPS AS SHOWN (TYPICAL). NEW BUMPERS/STOPS MAY BE NEEDED. CONTRACTOR TO CONFIRM QUANTITY SALVAGED VS QUANTITY OF FINAL PARKING STALLS. REFER TO DETAIL ON CE_6.
 - (G) INSTALL 3/4" EXPANSION JOINT BETWEEN BUILDING AND PAVEMENT.
 - (H) INSTALL 1" EXPANSION JOINT OR TYPE A ALTERNATE EXPANSION JOINT IN PAVING. REFER TO DETAIL ON CE_6.
 - (I) INSTALL TYPE C SAW JOINT WITH SEALANT IN PAVEMENT (TYPICAL). REFER TO DETAIL ON CE_6.
 - (J) INSTALL FIVE (5) 6" BOLLARDS AS SHOWN. PROTECT EXISTING UTILITIES DURING EXCAVATION. REFER TO DETAIL ON CE_6.
 - (K) INSTALL 6" SDR 26 PVC DOWNSPOUT LEADERS @ 1.0% MINIMUM SLOPE AS SHOWN. CONNECT TO BUILDING DOWNSPOUTS WITH DOWNSPOUT BOOT, ZURN Z191 (OR EQUAL) WITH OPTIONAL CLEANOUT PORT. WYE INTO STORM LINE AS SHOWN. REFER TO DETAILS AND PROFILE ON CE_5.

GENERAL NOTES:
 1) PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT LAYOUT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.



REVISIONS:	
NO.	DATE
BID SET	07/18/2024
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
ANDREW T. GREENE MO LICENSE: 202000043	
CROCKETT ENGINEERING CONSULTANTS 1000 W. MISSOURI BLVD. COLUMBIA, MISSOURI 65203 (314) 487-0299 www.crockettengineering.com Missouri Certificate of Authority #00000001	
OWNER: CURATORS OF THE UNIVERSITY OF MISSOURI 225 UNIVERSITY HALL C/O BUSINESS SERVICES COLUMBIA, MO 65211	
<h2 style="margin: 0;">ROCK QUARRY SURPLUS WAREHOUSE</h2> <h3 style="margin: 0;">- PAVING REPLACEMENT - CP221442</h3> <p style="margin: 0;">COLUMBIA, BOONE COUNTY, MISSOURI</p>	
DRAWING INCLUDES:	
SITE AND UTILITY PLAN	
DESIGNED:	ATG
DRAWN:	ATG
CEC PROJECT NO.: 220507	
SHEET:	CE 4

REVISIONS:

NO.	DATE
BID SET	07/18/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

ANDREW T. GREENE
MO LICENSE: 2020000043

PREPARED BY: **CROCKETT ENGINEERING CONSULTANTS**
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Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #00000001

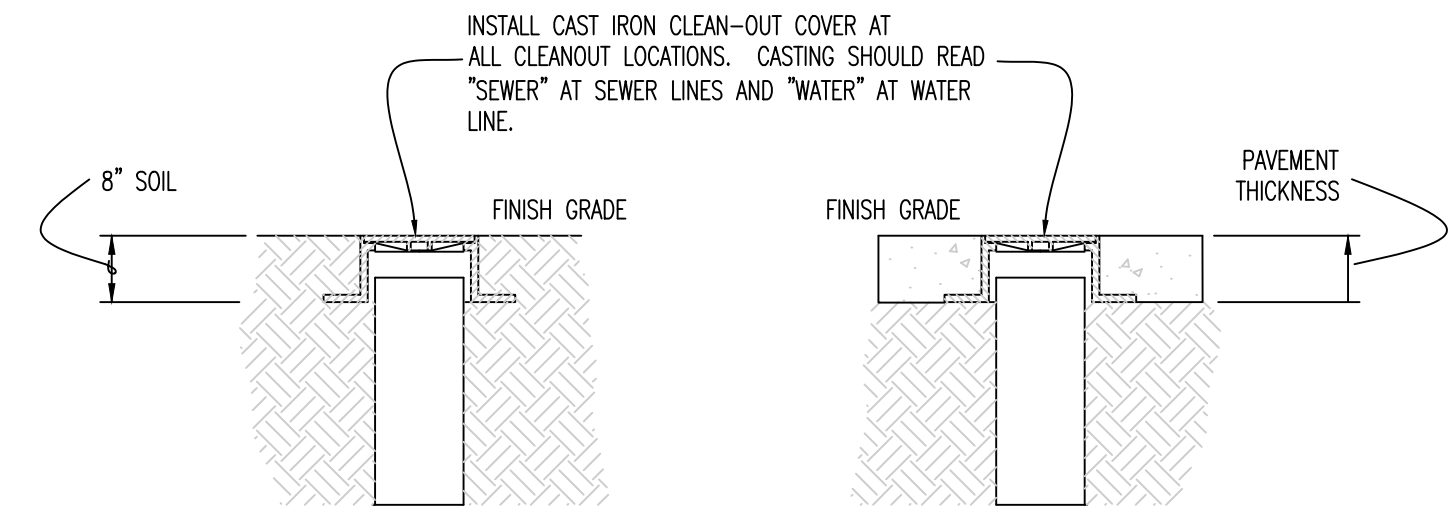
OWNER:
CURATORS OF THE UNIVERSITY OF MISSOURI
225 UNIVERSITY HALL
C/O BUSINESS SERVICES
COLUMBIA, MO 65211

ROCK QUARRY SURPLUS WAREHOUSE - PAVING REPLACEMENT - CP221442

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:
STORM SEWER PROFILE AND DETAILS

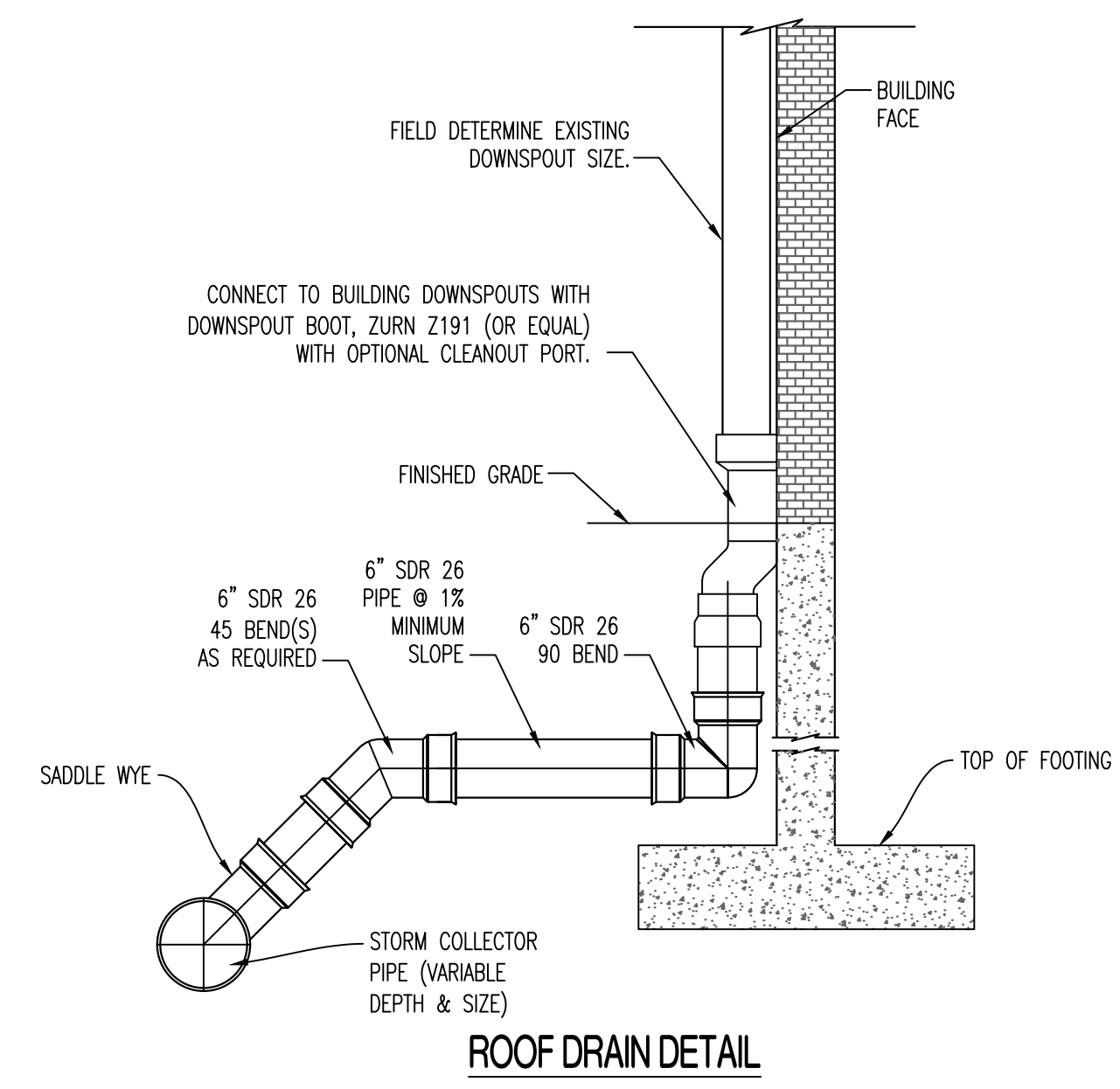
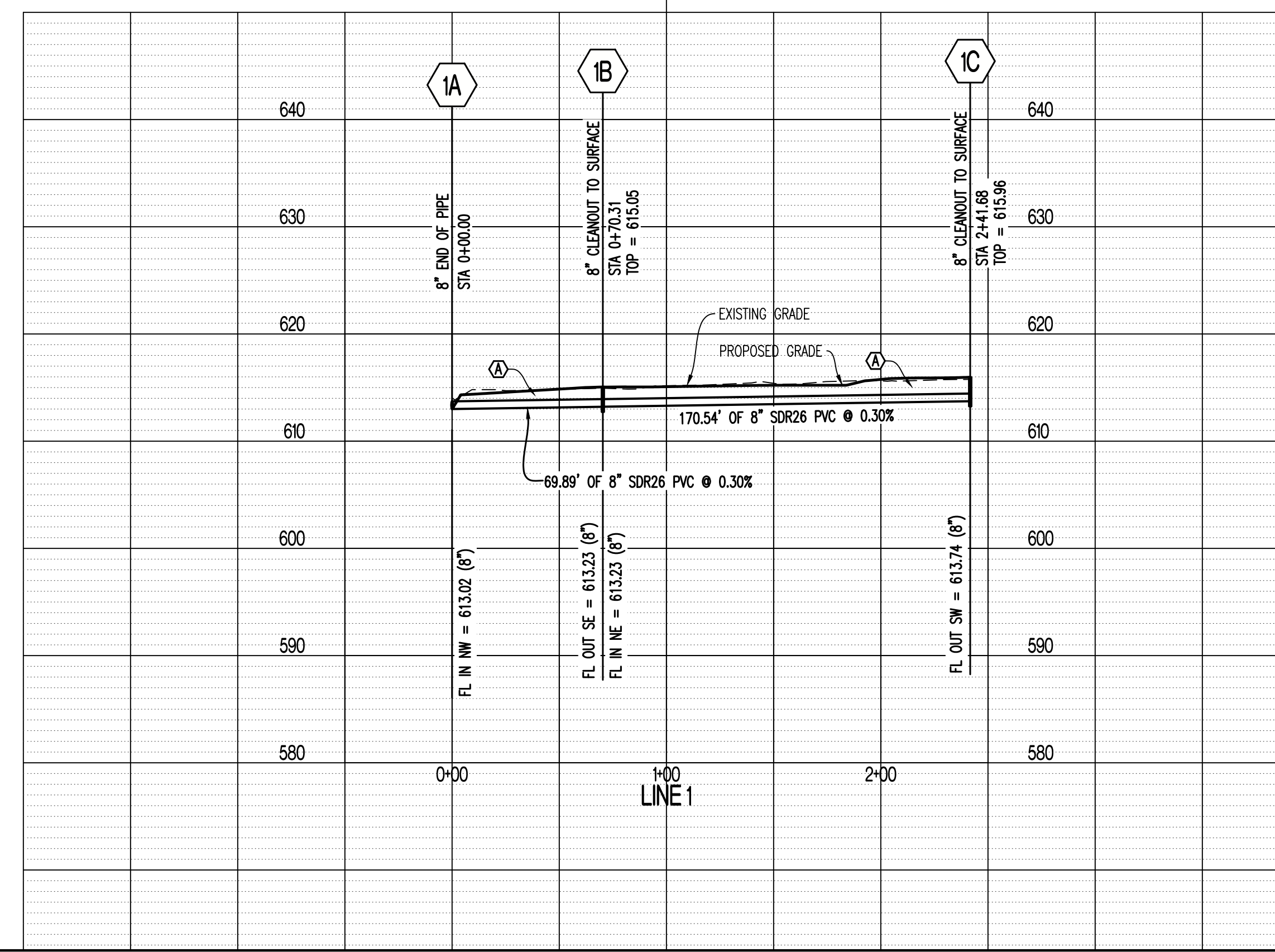
DESIGNED: ATG
DRAWN: ATG
CEC PROJECT NO: 220507
SHEET: CE 5



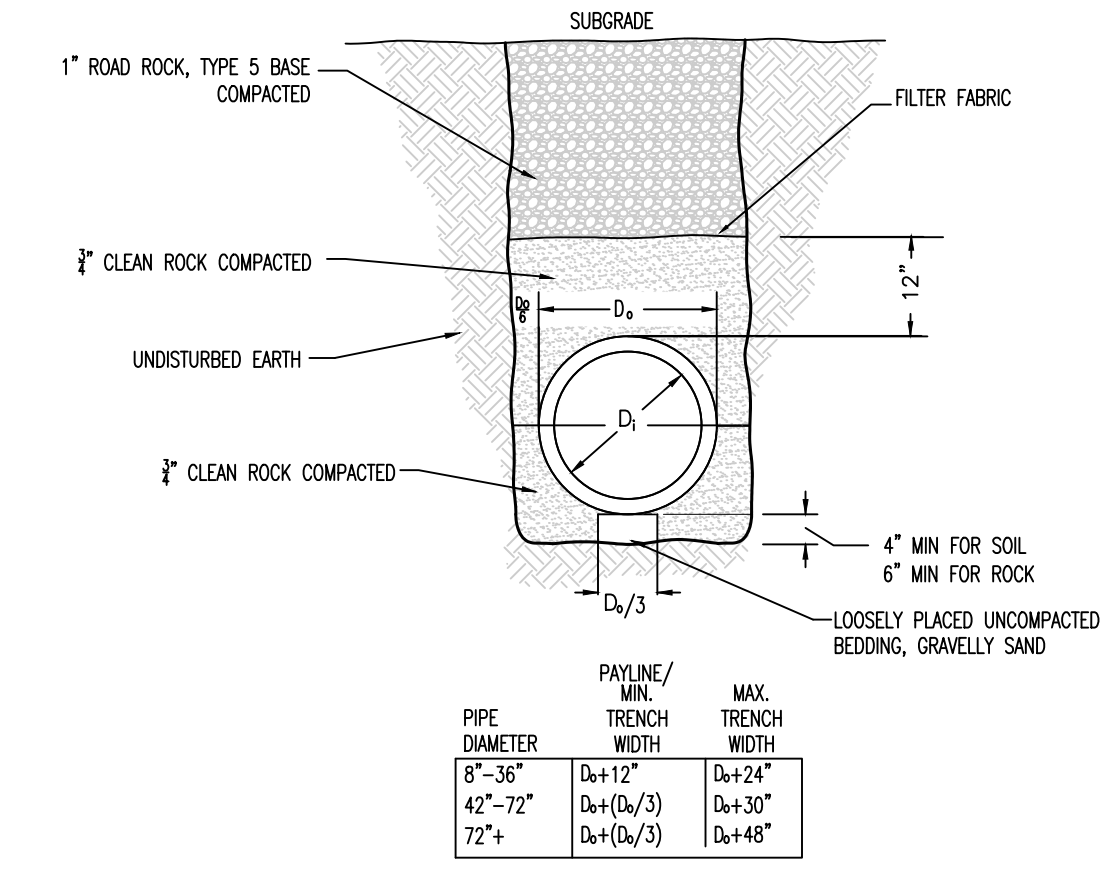
CLEANOUT COVERS

SCALE:
HORIZ 1" = 50'
VERT 1" = 10'

LEGEND OF LABELS:
Ⓐ REFER TO PIPE EMBEDMENT DETAIL (UNDER PAVEMENT). SEE DETAIL ON THIS SHEET.



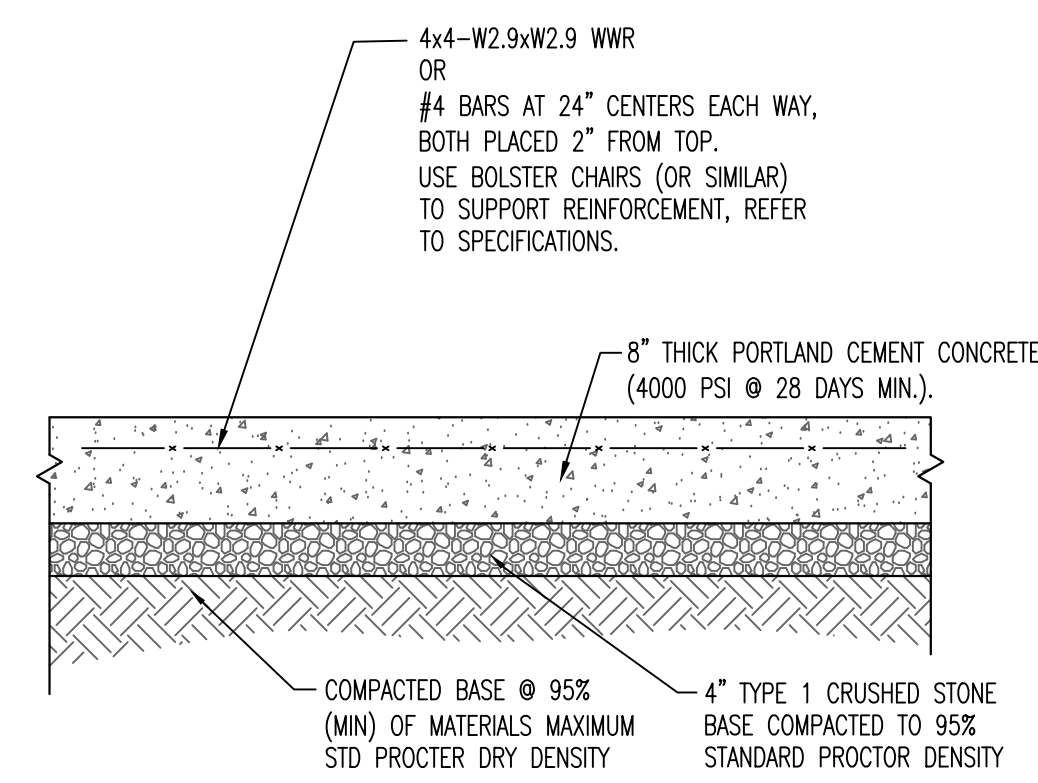
ROOF DRAIN DETAIL



PIPE EMBEDMENT (UNDER PAVEMENT)

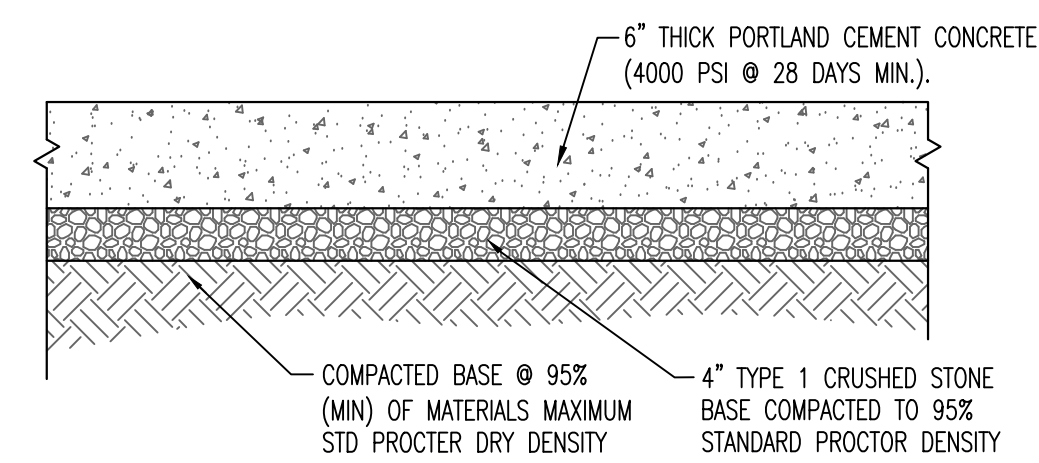
PIPE DIAMETER	PAVEMENT/ MIN. TRENCH WIDTH	MAX. TRENCH WIDTH
8" - 36"	D ₂ +12"	D ₂ +24"
42" - 72"	D ₂ +1(D ₂ /3)	D ₂ +30"
72" +	D ₂ +1(D ₂ /3)	D ₂ +48"

REVISIONS:	
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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
ANDREW T. GREENE MO LICENSE: 2020000043	
PREPARED BY: CROCKETT ENGINEERS & ARCHITECTS 1000 W. Illinois Blvd., Ste. 200 Columbia, Missouri 65203 (314) 487-0299 www.crockettengineering.com Missouri Certificate of Authority #000000001	
OWNER: CURATORS OF THE UNIVERSITY OF MISSOURI 226 UNIVERSITY HALL C/O BUSINESS SERVICES COLUMBIA, MO 65211	
ROCK QUARRY SURPLUS WAREHOUSE - PAVING REPLACEMENT - CP221442 COLUMBIA, BOONE COUNTY, MISSOURI	
DRAWING INCLUDES:	
SITE CONSTRUCTION DETAILS	
DESIGNED:	ATG
DRAWN:	ATG
CEC PROJECT NO.:	220507
SHEET:	CE 6



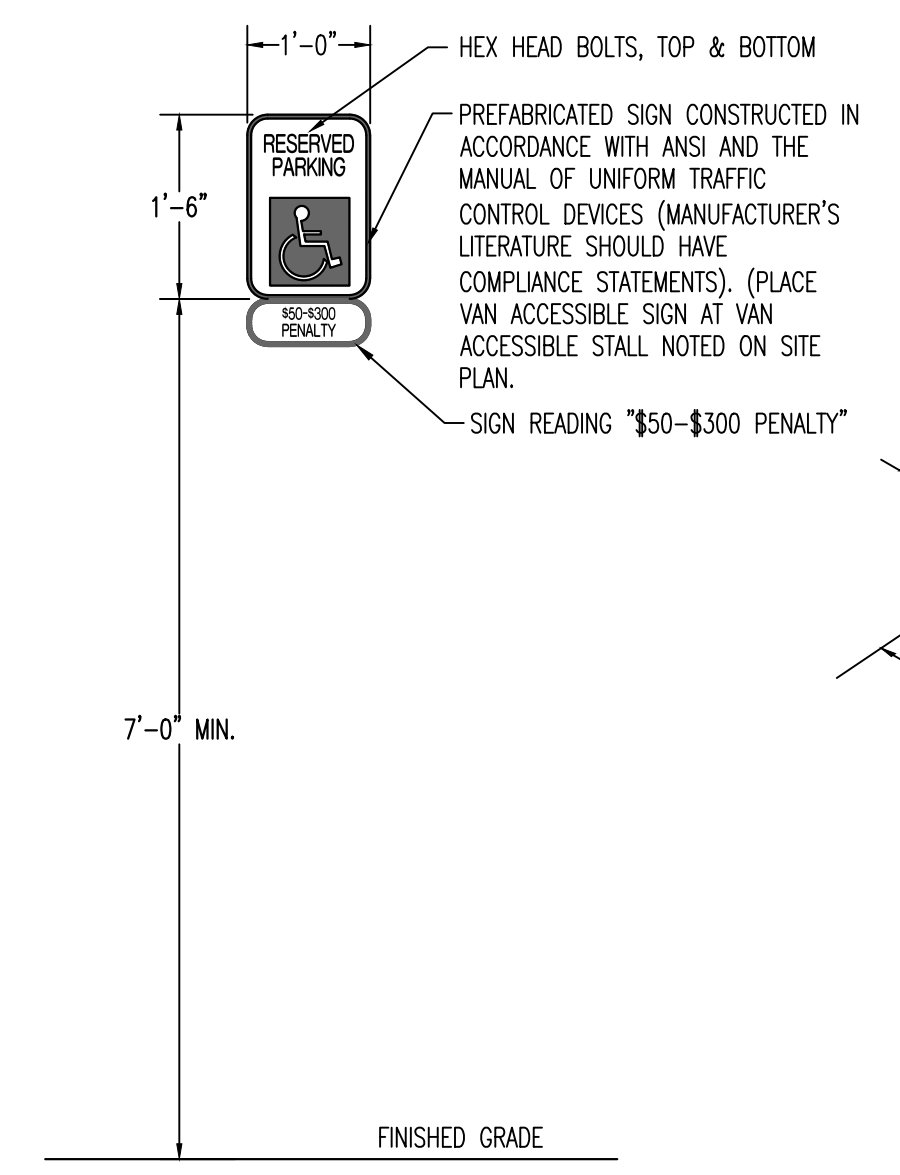
- NOTES:
1. ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.
 2. CONCRETE SHALL BE CLASS AA REINFORCING STEEL SHALL BE GRADE 60.

CONCRETE PAVEMENT CROSS SECTION (DUMPSTER PAD AREA)

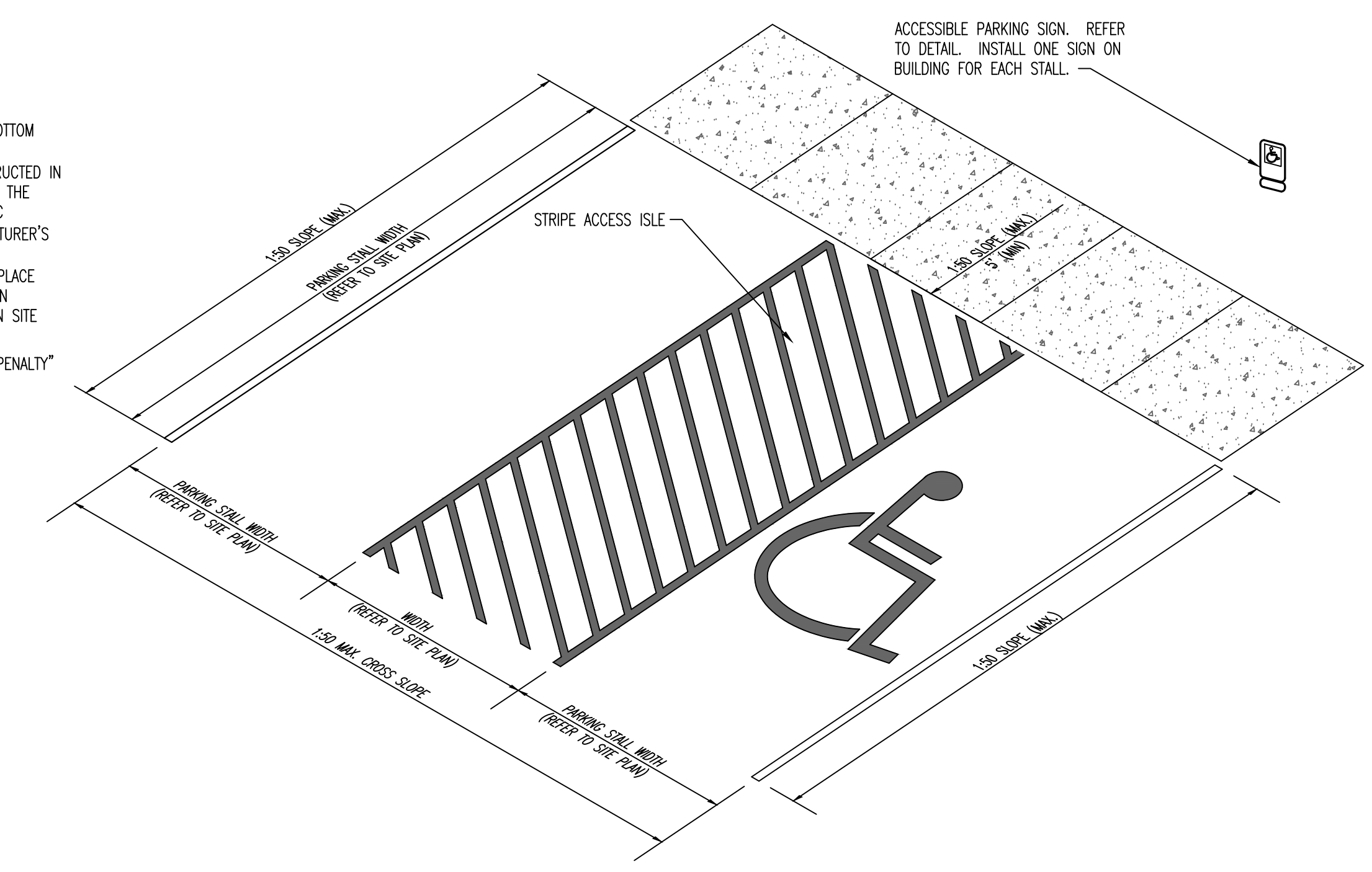


- NOTES:
1. ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

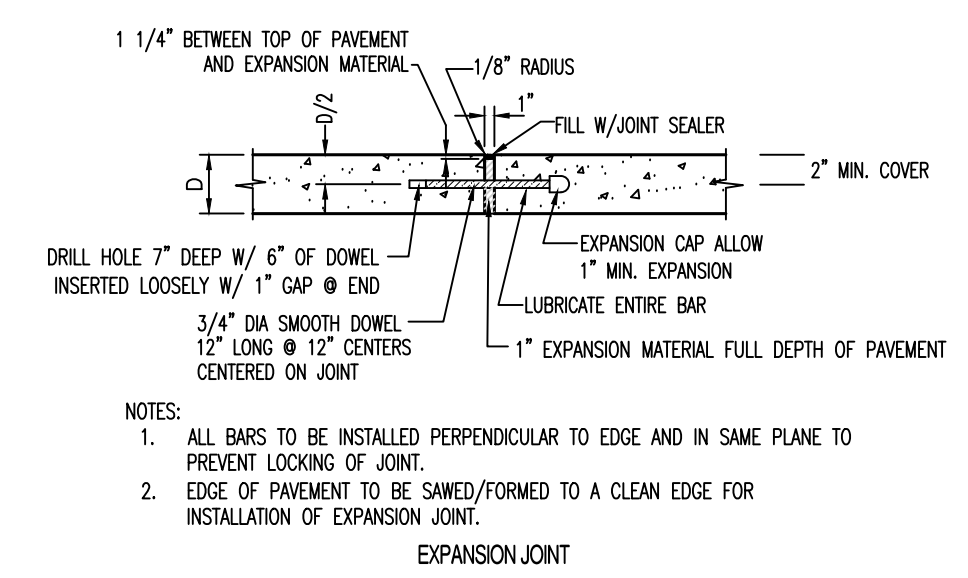
TYPICAL HEAVY DUTY CONCRETE PAVEMENT CROSS SECTION



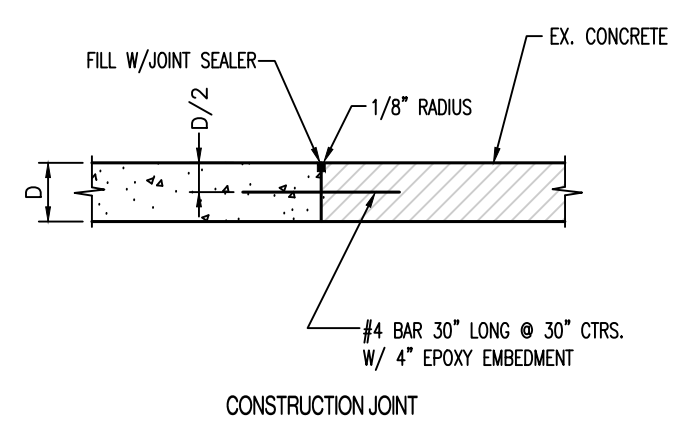
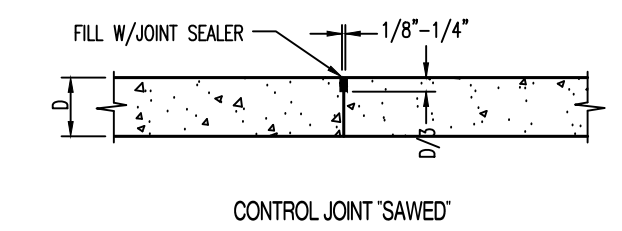
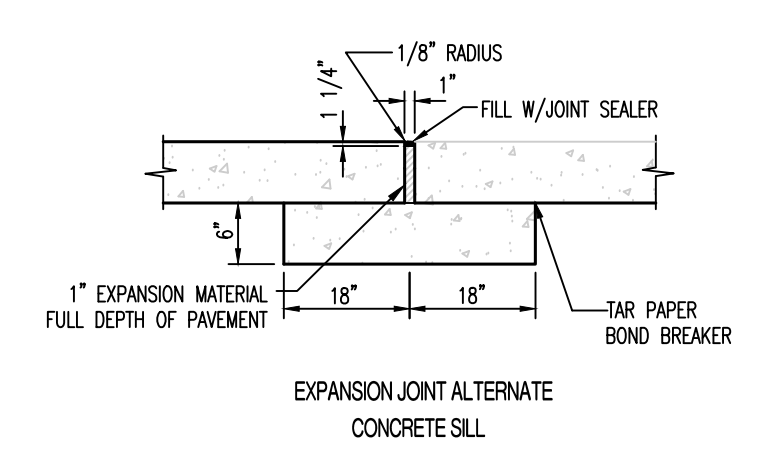
ACCESSIBLE PARKING SIGN



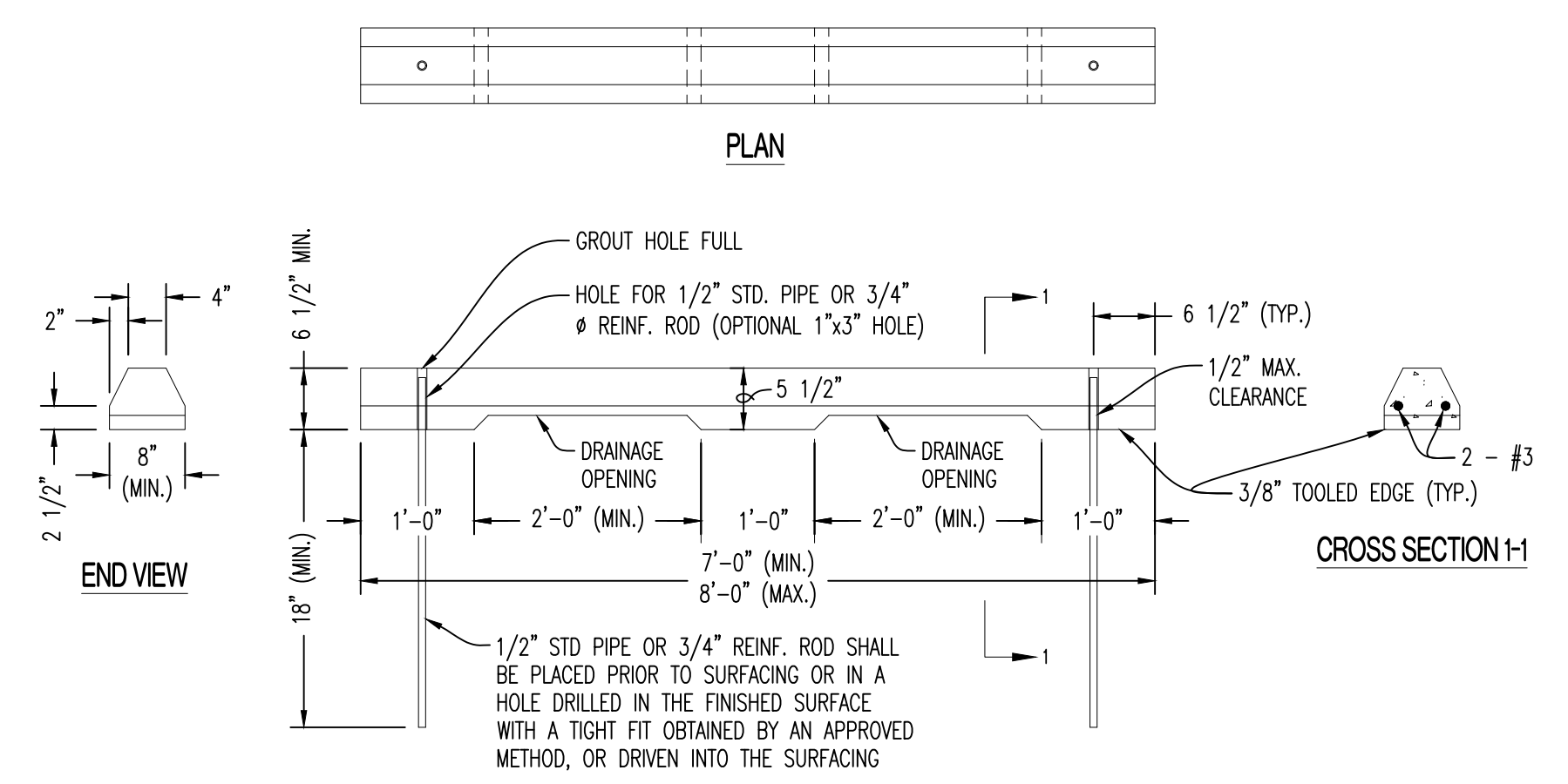
ACCESSIBLE PARKING SIGN AREA DETAIL



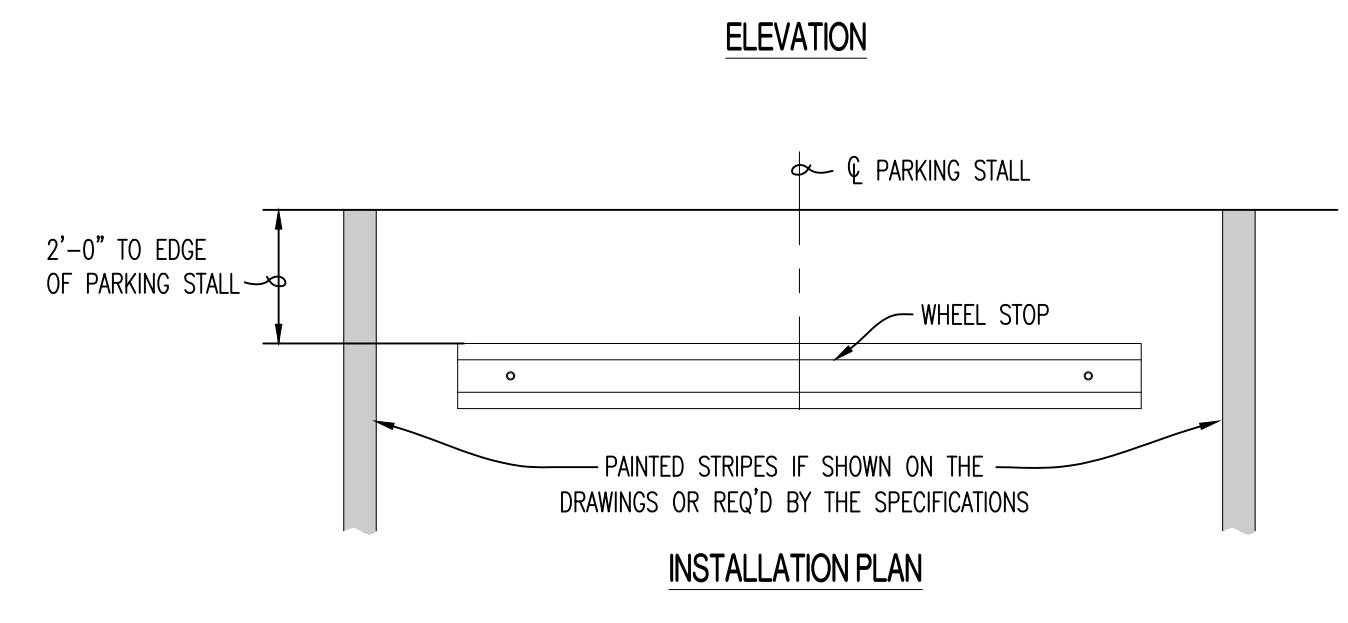
- NOTES:
1. ALL BARS TO BE INSTALLED PERPENDICULAR TO EDGE AND IN SAME PLANE TO PREVENT LOCKING OF JOINT.
 2. EDGE OF PAVEMENT TO BE SAWS/FORMED TO A CLEAN EDGE FOR INSTALLATION OF EXPANSION JOINT.



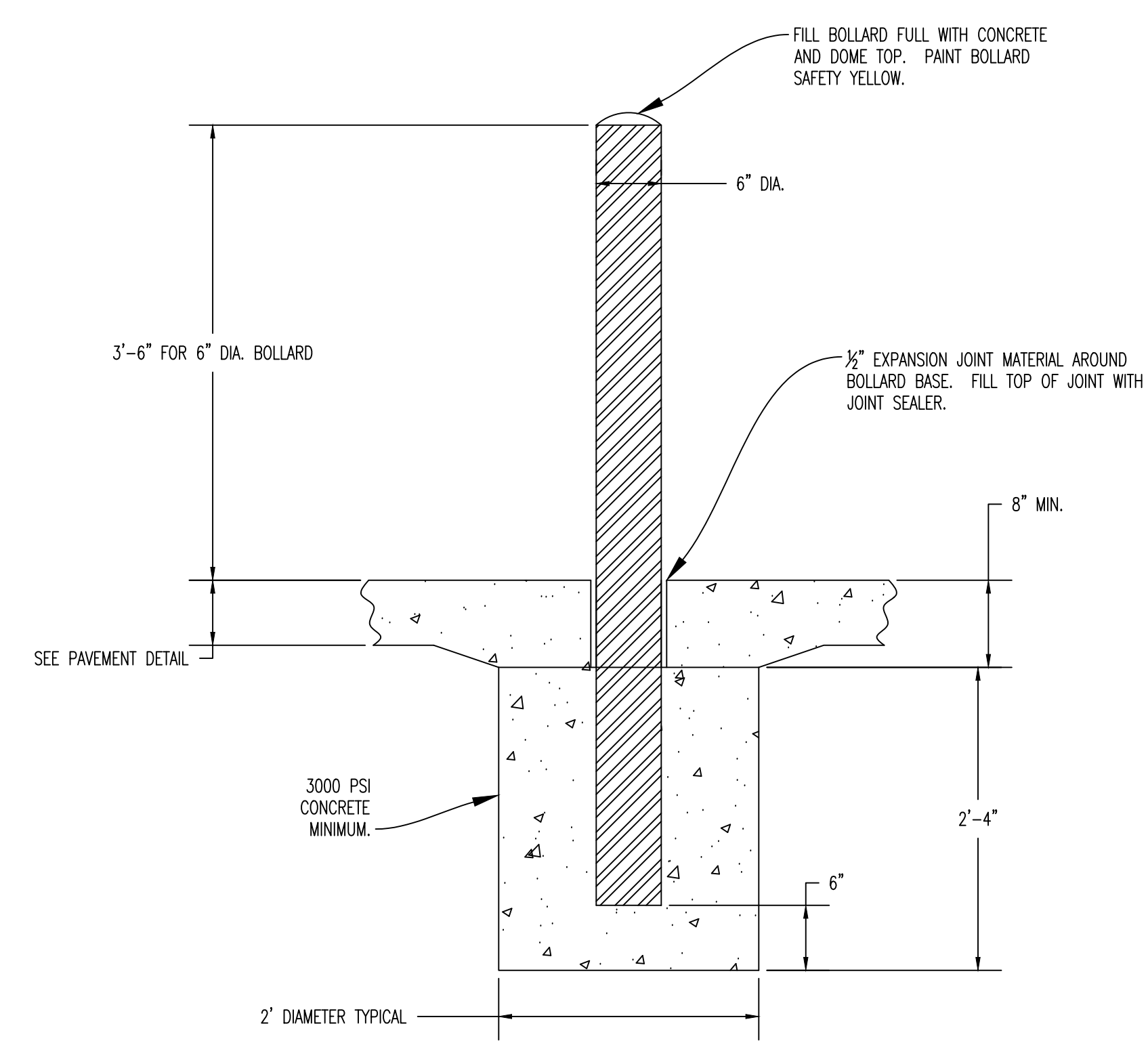
JOINT DETAILS (P.C. CONCRETE PAVEMENT)



PRECAST CONCRETE WHEEL STOP DETAILS



INSTALLATION PLAN



BOLLARD INSTALLATION DETAIL

Y:\2022\220507 - CP221442 Rock Quarry Surplus Warehouse Paving\civ\ACAD Files\Construction Plans\220507 Site Base.dwg

